

ENVIRONMENTAL
REPRESENTATION
IN
JOINT TRAINING SIMULATIONS

ENVIRONMENTAL REPRESENTATION IN JOINT TRAINING SIMULATIONS

- DOD and Service directives (e.g., DOD MSMP, AF M&S Strategic Plan, etc) all require environmental effects on weapons and sensors in DOD M&S.
- Including environmental effects on simulated weapons and sensors requires:
 - Four-dimensional environmental databases (atmosphere, ocean, space & terrain)
 - Effects models that model environmental impacts on simulated weapons and sensors.

- ASNE MSEAs well ahead of curve with robust capability to produce tailored M&S databases with ESG and ACMES, developing effects models with Hypercube technology and lobbying Service M&S owners and developers to incorporate environmental effects.
- Major shortfall in incorporating environment is lack of environmental effects models in Services' simulations used to train warfighters.
 - Most do not model environmental impacts on weapons, sensors, and military operations.
 - Reason: Lack of money and senior officer emphasis.

- Services and DOD respond to pressure on M&S requirements from DOD, Combatant Commands, and Major Commands.
 - They set priorities and determine what gets funded.
 - Environmental representation usually does not make the funding cut because it has no high-level sponsors.
- Senior staff weather officers at COCOMS, MAJCOMS, and DOD must get involved and actively support this effort.
 - It can't be relegated to bottom rung of staff effort when priorities are set and funds allocated.

- If COCOMS and MAJCOMS insist on environmental representation in DOD training simulations, it WILL get funded.
- Bottom line: ASNE MSEAs doing its job. Weather staff officers at COCOMS and MAJCOMS must get involved to be successful.